CONSUMPTIVE USE RATES FOR ALFALFA

	CU - IN./DAY				CIR - IN/	DAY	ACIR - IN/DAY		
MONTH	PEAK	MEAN	LOW	PEAK	MEAN	LOW	PEAK	MEAN	LOW
APRIL	.13	-11	.04	•//	.09	.04	./2	./0	.04
MAY	.20	.17	.07	. 16	./3	.05	.18	.15	.06
JUNE	.30	.25	.10	.26	.22	.09	,29	.24	-10
JULY	.30	.25	.10	.22	./8	.07	.26	.ZZ	.09
AUG.	.26	-ZZ	.09	.18	.15	.06	.23	.19	.08
SEPT.	. 19	.16	.06	. /3	.//	.04	•17	.14	.06
ост.	.11	.09	.04	.06	.05	.02	.08	.07	.03

Consumptive use studies conducted on alfalfa at Fort Sumner, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season, has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

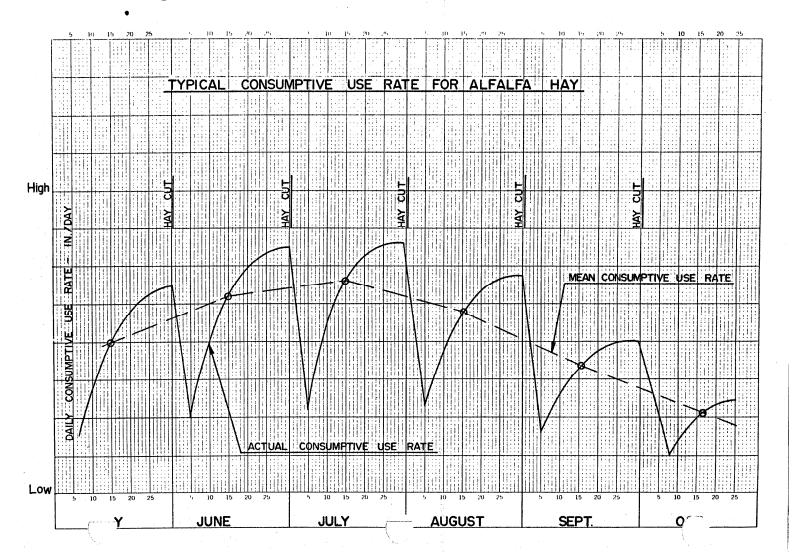
Alfalfa grown for seed production will have a consumptive use value equal to the peak value during full cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay growers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)

YEARLY VOLUME AT 100% EFFICIENCY						
CU	CIR	ACIR				
34.7"	26.1	30.4"				



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Tabular Computations

CONSUMPTIVE USE REQUIREMENTS

CC-TR21-4/81

FOR

CAPITAN FIELD OFFICE

			·			*		
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YEAR	TOTAL CIR "/YEAR	TOTAL ACIR "/YEAR
Cool	·							
Season	MAR.	.05	.04	.05		34.5	24.4	29.4
Irrigate	d April	.09	.07	.08				
Pasture	May	.14	.10	./2				
	June	.20	.17	• 19				
	July	.2/	.14	./8				
	Aug.	019	.12	.16				
	Sept.	.14	.09	.12				
	Oct.	.08	.04	.06	·			
	NOV.	.04	.03	.04		:		
								No. 100 Control of the Control
Warm								
Season								
Irrigate	d April	.09	.07	.08		30.4	20.8	25.6
Pasture	May	.14	-10	./2				
	June	.20	.17	. 19				
	July	.2/	.14	./8				
	Aug.	.19	./2	-16				
	Sept.	. 14	.09	.12				
	Oct.	.08	.04	.06				
The cons	umptive u	se of irr	igated p	sture fo	llows the	same gen	eral flu	tuations
during t	ne growin	g season	as those	shown fo	r alfalfa	, except	that the	e changes ing
lintencit	w can var	lv oreatly	from fa	rm to far	m, no att	empt has	lbeen mad	to plot
these fl	uctuation	s. There	fore, th	e above d	ata refle	cts the m	ean mont	lly or
yearly v	alues for	the cons	umptive	ise of ir	- I ya cea D	asture.		
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CONSUMPTIVE USE REQUIREMENTS	CC- TR21-4/81
for	,
CAPITAN	Field Office

CROP	HLNOW	cu "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
ORCHARD	APRIL	• []	.09	.10		39.7	30.1	34.9
WICOVER	MAY	.18	.14	.16				
	JUNE	.26	.23	.25				
	ZULY	.27	.20	.24				
	AUG.	.24	. 17	.2/				
	SEPT.	-17	-12	.15				
	OCT.	-10	.06	.08				
		*						
ORCHARO	APRIL	.07	.05	.06		29.2	19.7	24.5
WOCOVER	may	.15	. 11	./3				·
	JUNE	.22	.19	.2/			· · · · · · · · · · · · · · · · · · ·	العربية والمحادة العجودة الم
	JULY	.23	.16	-20				
	AUG.	018	-//	.15				
	SEPT.	.09	.04	.07				
	0 CT.	.03		.02				
							<u></u>	
SMALL Grain	SEPT.	.09	.04	.07		15.6	11.6	13.6
	OCT.	.10	.06	.08				
	NOV.	.07	.06	.07			ļ	
	MAR.	.10	.09	. 10	,,		<u> </u>	
	AARIL	.15	6/3	.14				
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